

Set	Items	Description
S1	12	AU=(BANCTEL F? OR BANCTEL, F?)
S2	12	AU=(PIETRE A? OR PIETRE, A?)
S3	12	S1 AND S2
S4	3	(S1 OR S2) AND (DATASTRUCTURE? OR DATA()STRUCTURE? OR TREE OR BTREE? OR TREES OR DIRECTORY OR DIRECTORIES OR TRIES)
S5	12	S3 OR S4
S6	12	IDPAT (sorted in duplicate/non-duplicate order)
S7	4	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Oct(Updated 050209)
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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200517
(c) 2005 Thomson Derwent

File 348:EUROPEAN PATENTS 1978-2005/Feb W04
(c) 2005 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20050310,UT=20050303
(c) 2005 WIPO/Univentio

7/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013525211 **Image available**
WPI Acc No: 2001-009417/200102
XRPX Acc No: N01-007100

Method of modification of a protocol between distributed objects
Patent Assignee: ALCATEL (COGE); ALCATEL SA (COGE); ALCATEL ALSTHOM CIE
GEN ELECTRICITE (COGE)
Inventor: BANCTEL F ; PIETRE A
Number of Countries: 029 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1045306	A1	20001018	EP 2000400982	A	20000410	200102 B
AU 200027640	A	20001019	AU 200027640	A	20000410	200102
CA 2302852	A1	20001015	CA 2302852	A	20000329	200102
FR 2792435	A1	20001020	FR 994713	A	19990415	200102
JP 2000339280	A	20001208	JP 2000114074	A	20000414	200104
US 6618765	B1	20030909	US 2000550295	A	20000414	200361

Priority Applications (No Type Date): FR 994713 A 19990415
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1045306	A1	F	9	G06F-009/46	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LI LT LU LV MC MK NL PT RO SE SI					
AU 200027640	A			H04L-012/66	
CA 2302852	A1	F		H04L-029/06	
FR 2792435	A1			G06F-019/00	
JP 2000339280	A		7	G06F-015/16	
US 6618765	B1			G06F-009/44	

Abstract (Basic): EP 1045306 A1

NOVELTY - The method sets up a personalized notification protocol between an object X in a client process and an object S in a server process. The client object is assigned a connection (CP3) to the server object. The connection has a vector interface allowing an object-object protocol between client and connection point via a connection proxy and stub, which provide a known notification protocol.

USE - Distributed environments operating under the Object Request Broker management environment

ADVANTAGE - Allows alteration of protocol between distributed objects without need to recompile, and allows alteration or protocol between more than two objects.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of connection between client and server

Client process object (X)

Server process object (S)

Assigned connection (CP3)

pp; 9 DwgNo 3/4

Title Terms: METHOD; MODIFIED; PROTOCOL; DISTRIBUTE; OBJECT

Derwent Class: T01

International Patent Class (Main): G06F-009/44; G06F-009/46; G06F-015/16;
G06F-019/00; H04L-012/66; H04L-029/06

International Patent Class (Additional): G06F-015/177

File Segment: EPI

7/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013525088 **Image available**
WPI Acc No: 2001-009294/200102
XRPX Acc No: N01-006988

Implementing a tree system for distributed objects by storing in a
parent object the address of a son object if in the same process and
information sending enquiry back to central directory if not

Patent Assignee: ALCATEL (COGE); ALCATEL SA (COGE)

Inventor: BANCTEL F ; PIETRE A

Number of Countries: 029 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1041498	A1	20001004	EP 2000400870	A	20000330	200102 B
FR 2791788	A1	20001006	FR 994072	A	19990401	200102
WO 200060452	A2	20001012	WO 2000FR802	A	20000330	200102
AU 200036629	A	20001023	AU 200036629	A	20000330	200107
AU 747472	B	20020516	AU 200036629	A	20000330	200244
JP 2002541544	W	20021203	JP 2000609878	A	20000330	200309
			WO 2000FR802	A	20000330	

Priority Applications (No Type Date): FR 994072 A 19990401

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1041498	A1	F	9	G06F-017/30	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LI LT LU LV MC MK NL PT RO SE SI					
FR 2791788	A1			G06F-012/08	
WO 200060452	A2	F		G06F-009/00	
Designated States (National): AU CA JP US					
AU 200036629	A			G06F-009/00	Based on patent WO 200060452
AU 747472	B			G06F-009/00	Previous Publ. patent AU 200036629
					Based on patent WO 200060452
JP 2002541544	W		16	G06F-009/46	Based on patent WO 200060452

Abstract (Basic): EP 1041498 A1

NOVELTY - A central **directory** (Pr0) controls the search for all
objects and includes a **data structure** (Tab0) which lists all
parent/son relationships with a process address for the final object. A
parent object (A) contains the address of a son object (B) if the
latter is in the same process but otherwise has information to send the
enquiry back to the central **directory** (Pr0) which uses the **data
structure** (Tab0) to search a different indicated process.

USE - To manage a **tree** system for distributed objects

ADVANTAGE - The search for an object is not frustrated by an
intermediate process being out of service and the central **directory**
is able to route enquiries to a process or corresponding redundant
process correctly using current system data

DESCRIPTION OF DRAWING(S) - The drawing shows the central
directory and processes

Central **directory** (Pr0)

Data structure (Tab0)

Parent object (A)

Son object (BB)

pp; 9 DwgNo 2/2

Title Terms: IMPLEMENT; **TREE** ; SYSTEM; DISTRIBUTE; OBJECT; STORAGE; PARENT
; OBJECT; ADDRESS; SON; OBJECT; PROCESS; INFORMATION; SEND; ENQUIRY; BACK
; CENTRAL; **DIRECTORY**

Derwent Class: T01

International Patent Class (Main): G06F-009/00; G06F-009/46; G06F-012/08;
G06F-017/30

International Patent Class (Additional): G06F-015/16

File Segment: EPI

Set	Items	Description
S1	670103	ROOT? ? OR PARENT? ? OR LEAF? ? OR SON OR SONS OR BRANCH? - OR TWIG? ? OR FATHER? ? OR STEM? ?
S2	56913	BTREE OR TREE OR TREES OR TRIES
S3	28097	DATASTRUCT? OR DATA()STRUCTURE?
S4	17132	ACCESS() (PATH OR PATHS OR ROUTE? OR MEANS) OR LAP OR LOGIC- AL()ACCESS?
S5	455503	NAME? OR (CHARACTER? OR ALPHANUMERIC) () (SEQUENC? OR STRING- ?)
S6	446	(CENTRAL OR PRIMAR? OR MAIN) (2N) (DIRECTORY OR DIRECTORIES)
S7	6508	(LOGICAL OR PHYSICAL) (N) (NAME? OR ADDRESS?)
S8	129251	(PROCESS OR PROCESSES OR PROGRAM? OR ENVIRONMENT? OR OPERA- TING()SYSTEM?) (2N) (SAME? OR CONTAIN? OR WITHIN OR WITH() "IN" - OR EMBED? OR INTEGRAT? OR INTEGRAL OR MATCHING OR IDENTICAL? - OR MATCHED?)
S9	1309682	RETURN? OR REFER? OR REDIRECT? OR DIRECTED OR DIRECTING
S10	59	S1(S) (S2 OR S3) (S) S4
S11	1	S10(S) S6
S12	27	S10(S) S5
S13	22	S10(S) S8
S14	31	S10(S) S9
S15	20	S14(S) (S5 OR S6 OR S7)
S16	27	(S11 OR S12 OR S13 OR S15) AND IC=G06F?
S17	27	IDPAT (sorted in duplicate/non-duplicate order)
S18	26	IDPAT (primary/non-duplicate records only)

File 348:EUROPEAN PATENTS 1978-2005/Feb W04
(c) 2005 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20050310,UT=20050303
(c) 2005 WIPO/Univentio

18/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00707155

EXTENDED ATTRIBUTES FILE SYSTEM

DATEISYSTEM MIT ERWEITERTEN ATTRIBUTEN

SYSTEME DE FICHIERS A ATTRIBUTS ETENDUS

PATENT ASSIGNEE:

NOVELL, INC., (1486133), 1555 North Technology Way, Orem, UT 84057-2399,
(US), (applicant designated states:
AT;BE;CH;DE;DK;ES;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

NEVAREZ, Carlos, A., 424 West 1010 North, Orem, UT 84057, (US)

LEGAL REPRESENTATIVE:

Hanna, Peter William Derek et al (72341), Tomkins & Co., 5 Dartmouth Road
, Dublin 6, (IE)

PATENT (CC, No, Kind, Date): EP 733238 A1 960925 (Basic)
EP 733238 A1 970108
EP 733238 B1 980401
WO 9516241 950615

APPLICATION (CC, No, Date): EP 95905869 941207; WO 94US14097 941207

PRIORITY (CC, No, Date): US 165971 931210

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
NL; PT; SE

INTERNATIONAL PATENT CLASS: **G06F-017/30**

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9814	1157
CLAIMS B	(German)	9814	1237
CLAIMS B	(French)	9814	1306
SPEC B	(English)	9814	3356
Total word count - document A			0
Total word count - document B			7056
Total word count - documents A + B			7056

INTERNATIONAL PATENT CLASS: **G06F-017/30**

...SPECIFICATION 1993, implements a method for dynamically expanding and rapidly accessing file directories in a UNIX **tree** -based file directory system. The technique provides **name** -oriented accessing of files having at least zero records, any **access path** to files and records through an external store coupling the computer being defined by a...

...a unique serial number assigned to the record and the unique serial number of any **parent** record entry. Each record entry includes the token, file or record **name** , and external store address or pointer. The **name** directory is a subset of the attribute directory. A traverse through the tokens constitutes a **leaf** -searchable B- **tree** . The **names** directory provides fast access into the attribute directory. Thus, Baird, et al., is **directed** to a method for dynamically expanding and rapidly accessing file directories.

Another prior art method...

18/3,K/24 (Item 24 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00745491 **Image available**

TECHNIQUES FOR PERFORMING A DATA QUERY IN A COMPUTER SYSTEM
TECHNIQUES D'EXECUTION D'UNE DEMANDE DE DONNEES DANS UN SYSTEME
INFORMATIQUE

Patent Applicant/Assignee:

GTE LABORATORIES INCORPORATED, 1209 Orange Street, Wilmington, DE 19801,
US, US (Residence), US (Nationality)

Inventor(s):

PONTE Jay, 5605 Stearns Hill Road, Waltham, MA 02451, US

Legal Representative:

SUCHYTA Leonard Charles, Gte Service Corporation, 600 Hidden Ridge Road,
MC HQE03G13, Irving, TX 75038, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200058863 A1 20001005 (WO 0058863)

Application: WO 2000US8450 20000330 (PCT/WO US0008450)

Priority Application: US 99283268 19990331; US 99282730 19990331

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 49717

Main International Patent Class: **G06F-017/10**

International Patent Class: **G06F-005/14** ...

... **G06F-017/30**

Fulltext Availability:

Claims

Claim

... 1 @@@

CONIGURATION STATE

@ 452 FILE FILE

I

PHTML FILES INSTANTIATOR

i

PHTML INTERPRETER 14

EXECUTION

TREES --

j

454

t

OTHER DATA

FIG. 8

/71

EM

SUj -p

'f@; -

-Sh o Consumer...

...are listed below. To select a category, simply click on it and you will be **returned** to a search form with the category filled in.
A B Q D E F...

...By Distance
GTE'S YELLOW PAGES Search by Distance MORE TOOLS
Enter Category or Business **Name** :
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...closest businesses presented first. Each business listing will include the distance in miles from the **reference** location that you provided. If you enter a street address, the distance will be measured...

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Business **Name** (e.g., GTE) 0H Shoo Online D Jd' A(Us
2 Enter City (optional)
1804...Home mmo@ Categories =*@ Results
Shoes-Custom Made (1 - 2 of 2)
Click (9 or business **name** for map and more info Shop Online for
computepts
Buy a mailing list for this...

...Matching Business
This business matches the telephone number you entered. Please click on the
business **name** if this is the correct business:
Matching Blue Cross & Blue Shield
Business: (617) 832-5000...entered information.
Fields marked 0 are required as part of your list
Business information
Business **Name** : 0 1 Blue Cross & Blue Shield
(Use normal capitalization, e.g., GTE SuperPages, not GTE...PHTML FILE
STORAGE
PHTML REPRESENTATION AND EXPAND STORING THE
FROM PHTML EXECUTION EXPANSION IN THE
TREE PHTMLCACHE
I i@ I
EXECUTE PHTML FILE PORTIONS 954
IN ACCORDANCE WITH
USER QUERY TO...

...OTHER 966
SEARCH DATA
FORMULATE RESULT DATA SET
IN ACCORDANCE WITH 968
USER QUERY REQUEST
RETURN RESULT DATA 970
TO PARSE DRIVER

/71
KOFFICE 1600
TRANSFER
COMPLETE
1602
604....

...MARK-UP FILES

1646
FIG. 32
200
NO YES
QUERY CACHE
I?
204
LOOK FOR **PARENT** SEARCH RESULTS IN DAT USE DATA Q1
QUERY CACHE BY DROPPING TERMS
205
NO SEARCH YES
RESULTS IN D
QUERY CACHE
ir FOR EACH **PARENT** , CAL,
212
USE ALTERNATE
TECHNIQUE
CHOOSE MINIMUM COST PARE
214 1
APPLY MINIMUM COST DERIV...

...34

240
DETERMINE A SUBSET OF QUERY TERMS
THAT UNIQUELY MAP A QUERY TO A **NAME**
v 244
FORM A QUERY STRING USING THE SUBSET OF
QUERY TERMS AS THEY MAY APPEAR IN EACH
PARTICULAR QUERY
248
DETERMINE IF **NAME** CORRESPONDS TO A DATA
SET IN THE QUERY CACHE
FIG. 35
/71
2 5 0...

...254

BUSINESS LISTING - 2 INFORMATION 256
BUSINESS LISTING - N INFORMATION 258
FIG. 36
CONSTRUCT A **NAME** FOR THE
TOTAL-CITY CACHE 260
CORRESPONDING TO
THE CURRENT QUERY
262
YES TAL-CITY NO
QUERY CACHED
PERFOR@
264 SE
SAVE **REFERENCE** TO
THE CACHED ITEM
BY MOVING TO HOT CACHE
CACHE SE)


```

IN HC
TO 270
FIG. 38
FIG. 37
/71
FROM 264 & 268
FIG. 37
IF
CONSTRUCT A NAME FOR THE 270
MULTI-CITY CACHE CORRESPONDING
TO THE CURRENT QUERY
272
YES NO
UERY CACHED
276
PERFORM MULTI-CITY
SEARCH
SAVE REFERENCE TO 274
CACHED RESULTS BY PLACING
IN HOT CACHE 278
CACHE SEARCH RESULTS
IN HOT...

...Farm
GTE's YELLOW PAGES MORE TOOLS
Enter Category (Tor) C eaories)
art supplies
Business Name (e.g.,GTE) Shop Online C dd' A( Us
I 0
E t Cat (optional...NO NO 1 MATC
RENCE <= 3 '(1028 NTRY IN DAT)
r1024 NO MATCH
FOUND
USE " NAME EDIT DISTANCE 1032
HEURISTIC" TO COMPUTE
THE NAME DISTANCE
1036
NO TRY WIT YES
1026 MAXIMUM
YES I N NO SCORE
<1 0...
...TO 1086
FIG. 51 FORM SUBS
FOR ONE OR
SECONDARY SEARCH MATCHING
IF
FIG. 48
" NAME MATCH"
CANONIZE NAME 1060
ENTRIES
IF
TOKENIZE NAME INTO 062
COMPONENTS
ir
PERFORM SETWISE CONTENTS 1064
COMPARISON OF NAME
COMPONENTS FOR ENTRIES
1066
SCORE IS 1 POINT PER
MATCHING COMPONENT

```

```

if @ 068
  RETURN
FIG. 49
"DERIVE SCORE"
ORE IS NAME MAT 1080
SCORE + I IF THE ZIP CODE
MATCHES
RMALIZED SCORE = 1082
SCORE/# TOKENS IN...

...D5,2
11SECONDARY S FIG. 48
1086
UPDATE RECOR
I 088
REMOVE',STOP WORDS" FROM
  NAME FIELD
EARCH 0 DATABAS 1090
PERFOR S
BASED ON CONJUNCTION OF
TOKENIZED NAME FIELD
COMPONENTS AND ZIP COD
1092
ORE THA YES
NO MATCHING
ENTRI
ATCH
TO @1010...

...1470
MATCHING IF RECORD IDENTIF INSERT UPDATE IF DELETE IF RECORD IDENTIFIER
UF AND HEADING NAME MATCH RECORD IDENTIFIER IS NEW OF AN EXISTING
RECORD OF Ej'
IS NOT IN THE...

...WORKING
COPY OF CATEGORY FILE
FIG. 56
1442
520
FIND DUPLICATE CATEGORIES
IF
CHOOSE CATEGORY NAME MOST FREQUENTLY USED
BY SEARCHING THE BUSINESS LISTING FILES FOR FREQUENCY
DETERMINATION
I F 15,'
PATCH BUSINESS LISTING FILES WITH UPDATE CATEGORY
IDENTIFIERS AND NAMES AS APPROPRIATE
IF 153(
UPDATE CATEGORY FILE WITH COLLAPSED CATEGORY
FIG. 57
TOKENIZE FIRST CATEGORY NAME 1500
T70 1504
F KENIZE NEXT CATEGORY NAME
11r 1506
COMPARE TOKENIZED CURRENT AND
PREVIOUS CATEGORY NAMES AND DERIVE
SCORE IN ACCORDANCE WITH NUMBER OF
MATCHING NAME COMPONENTS
1508

```

NO YES

>75%

1510 L

ADVANCE TO NEXT CATEGORY CATEGORIES ARE
DUPLICATES PROP...

Set	Items	Description
S1	670103	ROOT? ? OR PARENT? ? OR LEAF? ? OR SON OR SONS OR BRANCH? - OR TWIG? ? OR FATHER? ? OR STEM? ?
S2	56913	BTREE OR TREE OR TREES OR TRIES
S3	28097	DATASTRUCT? OR DATA()STRUCTURE?
S4	17132	ACCESS() (PATH OR PATHS OR ROUTE? OR MEANS) OR LAP OR LOGIC- AL()ACCESS?
S5	455503	NAME? OR (CHARACTER? OR ALPHANUMERIC) () (SEQUENC? OR STRING- ?)
S6	446	(CENTRAL OR PRIMAR? OR MAIN) (2N) (DIRECTORY OR DIRECTORIES)
S7	6508	(LOGICAL OR PHYSICAL) (N) (NAME? OR ADDRESS?)
S8	129251	(PROCESS OR PROCESSES OR PROGRAM? OR ENVIRONMENT? OR OPERA- TING()SYSTEM?) (2N) (SAME? OR CONTAIN? OR WITHIN OR WITH() "IN" - OR EMBED? OR INTEGRAT? OR INTEGRAL OR MATCHING OR IDENTICAL? - OR MATCHED?)
S9	1309682	RETURN? OR REFER? OR REDIRECT? OR DIRECTED OR DIRECTING
S10	59	S1(S) (S2 OR S3) (S)S4
S11	1	S10(S)S6
S12	27	S10(S)S5
S13	22	S10(S)S8
S14	31	S10(S)S9
S15	20	S14(S) (S5 OR S6 OR S7)
S16	27	(S11 OR S12 OR S13 OR S15) AND IC=G06F?
S17	27	IDPAT (sorted in duplicate/non-duplicate order)
S18	26	IDPAT (primary/non-duplicate records only)
S19	112813	ROOT? ? OR PARENT? ? OR FATHER? ?
S20	240	(S2 OR S3) (S)S19(S)S8
S21	4	S20(S)S6
S22	31	S10(S)S9
S23	16	(S21 OR S22) NOT S16
S24	11	S23 AND IC=G06F?
S25	8	S24 NOT AD=19990401:20010401
S26	6	S25 NOT AD=20010401:20050501
File 348:EUROPEAN PATENTS 1978-2005/Feb W04		
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File 349:PCT FULLTEXT 1979-2002/UB=20050310,UT=20050303		
(c) 2005 WIPO/Univentio		

26/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00367282

Method of performing operations in a relational data base management system.

Verfahren zur Durchführung von Operationen in einem relationalen Datenbankverwaltungssystem.

Methode d'execution d'operations dans un systeme relationnel de gestion de base de donnees.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Crus, Richard Anthony, 1980 Dorrance Court, San Jose, CA 95125, (US)

Engles, Robert William, 6899 Hampton Drive, San Jose, CA 95120, (US)

Haderle, Donald James, 812 Lilac Way, Los Gatos, CA 95030, (US)

Herron, Howard Winston, 1444 Bing Drive, San Jose, CA 95129, (US)

LEGAL REPRESENTATIVE:

Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 351209 A2 900117 (Basic)

EP 351209 A3 921014

EP 351209 B1 940629

APPLICATION (CC, No, Date): EP 89307075 890712;

PRIORITY (CC, No, Date): US 219513 880715

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/40

ABSTRACT WORD COUNT: 155

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPBBF1	470
CLAIMS B	(English)	EPBBF1	480
CLAIMS B	(German)	EPBBF1	450
CLAIMS B	(French)	EPBBF1	477
SPEC A	(English)	EPBBF1	10268
SPEC B	(English)	EPBBF1	10349
Total word count - document A			10738
Total word count - document B			11756
Total word count - documents A + B			22494

INTERNATIONAL PATENT CLASS: G06F-015/40

...SPECIFICATION which uses only a single pass through the data.

A third prior art version of **referential** integrity incorporates paths or "links" representing constraints between a **parent** and its dependent records into the basic **access path** to the **parent** data. This method of "linked" **referential** constraints is typically implemented by using a chained list to go from a **parent** to all its dependents, or by using a **B- tree** rooted in the **parent** to point to all dependents. These linked methods suffer from several disadvantages. One is that the enforcement of such linked **referential** constraints requires special provisions for detecting and resolving self- **referencing** and cyclic constraints. Another is that constraints cannot be added to ...requires restructuring the data. There is therefore a need for an efficient method of enforcing **referential** constraints which allows ready modification of the constraints without restructuring the data.

One object of...

26/3,K/3 (Item 3 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00351573

Method for obtaining access to data structures without locking.
Verfahren zur Gewinnung von Verriegelungsfreiem Zugriff zu Datenstrukturen.
Methode pour obtenir l'accès à des structures de données sans verrouillage.
PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,
Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Bozman, Gerald Parks, 609 Ramapo Valley Road, Oakland New Jersey, (US)

LEGAL REPRESENTATIVE:

Schafer, Wolfgang, Dipl.-Ing. (62021), IBM Deutschland
Informationssysteme GmbH Patentwesen und Urheberrecht, D-70548
Stuttgart, (DE)

PATENT (CC, No, Kind, Date): EP 362709 A2 900411 (Basic)
EP 362709 A3 920819

APPLICATION (CC, No, Date): EP 89118049 890929;

PRIORITY (CC, No, Date): US 255000 881007

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/403 ; G06F-015/419

ABSTRACT WORD COUNT: 85

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1649
SPEC A	(English)	EPABF1	5271
Total word count - document A			6920
Total word count - document B			0
Total word count - documents A + B			6920

INTERNATIONAL PATENT CLASS: G06F-015/403 ...

... G06F-015/419

...SPECIFICATION Koffeman, K. L. (Eds.), North-Holland, 1974, pp 385-397,
which have been called B+- **trees** in Comer, D., "The ubiquitous B- **tree**
," ACM Computing Surveys, vol. 11, pp. 121-138, 1979. and B*- **trees** in
Bayer, R. and Unterauer, K., "Prefix B- **trees** ," ACM Trans. on Database
Systems, vol. 2, 1 (March 1977), pp. 11-26, and Wedekind. The terminology
of Comer, is used in the present description to **refer** to **leaf** search
B- **trees** .

It is often desirable that weak searchers of B+-trees not be required
to use...

Set	Items	Description
S1	1934197	ROOT? ? OR PARENT? ? OR LEAF? ? OR SON OR SONS OR BRANCH? - OR TWIG? ? OR FATHER? ? OR STEM? ?
S2	483419	BTREE OR TREE OR TREES OR TRIES
S3	96666	DATASTRUCT? OR DATA()STRUCTURE?
S4	21510	ACCESS() (PATH OR PATHS OR ROUTE? OR MEANS) OR LAP OR LOGIC- AL()ACCESS?
S5	674050	NAME? OR (CHARACTER? OR ALPHANUMERIC) () (SEQUENC? OR STRING- ?)
S6	197	(CENTRAL OR PRIMAR? OR MAIN) (2N) (DIRECTORY OR DIRECTORIES)
S7	1245	(LOGICAL OR PHYSICAL) (N) (NAME? OR ADDRESS?)
S8	192890	(PROCESS OR PROCESSES OR PROGRAM OR ENVIRONMENT? OR OPERAT- ING()SYSTEM?) (2N) (SAME? OR CONTAIN? OR WITHIN OR "WITH" () IN OR EMBED? OR INTEGRAT? OR INTEGRAL OR MATCHING OR IDENTICAL? OR MATCHED)
S9	1933284	RETURN? OR REFER? OR REDIRECT? OR DIRECTED OR DIRECTING OR DIRECTS
S10	0	S1 AND S2 AND S3 AND S4 AND S8
S11	482	S1 AND S2 AND S8
S12	39	S11 AND (S4 OR S9)
S13	18	S11 AND S5
S14	0	S11 AND S6
S15	0	S11 AND S7
S16	0	S1 AND S2 AND S6 AND S7
S17	55	S12 OR S13
S18	41	RD (unique items)
S19	21	S18 NOT PY>1999
File	8: Ei Compendex(R) 1970-2005/Mar W1	(c) 2005 Elsevier Eng. Info. Inc.
File	35: Dissertation Abs Online 1861-2005/Feb	(c) 2005 ProQuest Info&Learning
File	65: Inside Conferences 1993-2005/Mar W2	(c) 2005 BLDSC all rts. reserv.
File	2: INSPEC 1969-2005/Mar W1	(c) 2005 Institution of Electrical Engineers
File	94: JICST-EPlus 1985-2005/Feb W1	(c) 2005 Japan Science and Tech Corp(JST)
File	111: TGG Natl. Newspaper Index(SM) 1979-2005/Mar 17	(c) 2005 The Gale Group
File	6: NTIS 1964-2005/Mar W1	(c) 2005 NTIS, Intl Cpyrght All Rights Res
File	144: Pascal 1973-2005/Mar W1	(c) 2005 INIST/CNRS
File	34: SciSearch(R) Cited Ref Sci 1990-2005/Mar W2	(c) 2005 Inst for Sci Info
File	99: Wilson Appl. Sci & Tech Abs 1983-2005/Feb	(c) 2005 The HW Wilson Co.
File	95: TEME-Technology & Management 1989-2005/Feb W1	(c) 2005 FIZ TECHNIK

19/5/11 (Item 9 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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744836 ORDER NO: AAD81-09709

DECIDABILITY AND EXPRESSIVENESS OF LOGICS OF PROCESSES

Author: ABRAHAMSON, KARL RAYMOND

Degree: PH.D.

Year: 1980

Corporate Source/Institution: UNIVERSITY OF WASHINGTON (0250)

Source: VOLUME 41/11-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 4179. 173 PAGES

Descriptors: COMPUTER SCIENCE

Descriptor Codes: 0984

We define and study several logics of processes. The logics GPL and MPL are based on a second order tense logic, where the two types of variable range over computation sequences and points on computation sequences. GPL is a version of the predicate calculus, similar to Parikh's general logic. MPL is a modal logic, and is the only modal process logic we know of which incorporates two fundamentally different types of modality. When syntactic programs are included in MPL, MPL is at least as expressive as PDL('+), Parikh's SOAPL, Pnueli's tense logic or Nishimura's **process** logic, and **contains** both Lamport's linear and **branching** time logics.

We present a tableau method for deciding validity in MPL, based on a new type of **directed** graph, called an LL-graph. From the tableau method we derive a complete proof system for MPL.

Although GPL and MPL are based on the same notions, we find some interesting differences between the two. MPL is decidable in double exponential time, while even a proper subset of GPL, which can express the same properties as MPL, is nonelementary. We are able to show that GPL is decidable only when processes are **tree**-like, in Parikh's sense. In contrast, our method for deciding MPL in general requires processes which are not **tree**-like.

Processes are defined on a very abstract level, as sets of computation sequences. Intrinsic to our definition of a process is the notion of deadlock. Both GPL and MPL have provisions for explicitly discussing deadlock, which most other process logics to date ignore.

We also study extensions to PDL. We show, provided only that basic programs are indivisible actions, that extending PDL by a concurrency operator, a global invariance operator and flowgraph programs, among others, adds no expressive power to PDL. Moreover, there is a better way to decide formulas in the extended logic than to translate them to PDL. We extend PDL by adding special Boolean variables, which can be set and tested. Boolean variable PDL efficiently simulates the above extensions, and is shown to be decidable by a faster method than by eliminating Boolean variables.

We prove a lower bound on the complexity of B-PDL which is a function of two parameters, the length of the input, and the number of variables it contains. The proof involves a compression theorem for functions of several variables, which may be of general use.

19/5/17 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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02540290 JICST ACCESSION NUMBER: 95A0791518 FILE SEGMENT: JICST-E

On Cooperative Search in Logic Programming.

ZHOU N-F (1)

(1) Kyushu Inst. Technol., Fukuoka, JPN

Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report
(Institute of Electronics, Information and Communication Enginners),
1995, VOL.95,NO.211(AI95 14-21), PAGE.25-31, FIG.4, REF.11

JOURNAL NUMBER: S0532BBG

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:007.51

LANGUAGE: English COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: In this paper, we describe an execution model for executing in parallel search programs in logic programming languages and propose three scheduling strategies, **namely**, full breadth-first, partial breadth-first, and depth-first. This model divides the search space among the participating machines, but requires neither communication nor dynamic copy. All machines start executing the **same program** independently until **branches** in the search **tree** are encountered. In that case, they determine which **branches** to explore. We investigate the three scheduling strategies and discuss their advantages and disadvantages. We also evaluate the scheduling strategies experimentally for two problems: N-queens and the blocks world problem. (author abst.)

DESCRIPTORS: logic programming; search problem; parallel processing; modeling; scheduling; computer program; logic programming language; computer processing system

BROADER DESCRIPTORS: computer programming; problem; treatment; operation(processing); software; programming language; formal language; language; method

CLASSIFICATION CODE(S): JE08000Z

Set	Items	Description
S1	513251	ROOT? ? OR PARENT? ? OR LEAF? ? OR SON OR SONS OR BRANCH? - OR TWIG? ? OR FATHER? ? OR STEM? ?
S2	52126	BTREE OR TREE OR TREES OR TRIES
S3	9696	DATASTRUCT? OR DATA()STRUCTURE?
S4	19917	ACCESS() (PATH OR PATHS OR ROUTE? OR MEANS) OR LAP OR LOGIC- AL()ACCESS?
S5	177462	NAME? OR (CHARACTER? OR ALPHANUMERIC) () (SEQUENC? OR STRING- ?)
S6	165	(CENTRAL OR PRIMAR? OR MAIN) (2N) (DIRECTORY OR DIRECTORIES)
S7	4813	(LOGICAL OR PHYSICAL) (N) (NAME? OR ADDRESS?)
S8	59176	(PROCESS OR PROCESSES OR PROGRAM? OR ENVIRONMENT? OR OPERA- TING()SYSTEM?) (2N) (SAME? OR CONTAIN? OR WITHIN OR WITH() "IN" - OR EMBED? OR INTEGRAT? OR INTEGRAL OR MATCHING OR IDENTICAL? - OR MATCHED?)
S9	1096059	RETURN? OR REFER? OR REDIRECT? OR DIRECTED OR DIRECTING
S10	12561	S1 AND (S2 OR S3)
S11	12	S10 AND S4
S12	214	S10 AND S5
S13	29	S12 AND (S7 OR S8 OR S9)
S14	5	S10 AND S6
S15	9	S1 AND S6
S16	0	(S1 OR S2 OR S3) AND S6 (3N) S9
S17	2	(S1 OR S2 OR S3) AND S6 AND S9
S18	37060	(S1 OR S2 OR S3) AND S9
S19	7	S18 AND (S4 OR S5) AND S8
S20	0	S18 AND S7 AND S8
S21	57	S11 OR S13 OR S14 OR S15 OR S17 OR S19
S22	34	S21 AND IC=G06F?
S23	8	S21 AND MC=(T01-J05B2B OR T01-J05B3)
S24	34	S22 OR S23
S25	34	IDPAT (sorted in duplicate/non-duplicate order)
S26	34	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Nov(Updated 050309)

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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200518

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26/5/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015647040 **Image available**
WPI Acc No: 2003-709223/200367
XRPX Acc No: N03-566827

Processing method for data elements stored in pruned data set, involves indicating to user that directory structure, associated with immediate parent directory, exists within main directory structure but omitted from display

Patent Assignee: ELECTRONIC DATA SYSTEMS CORP (ELDA-N); UGS PLM SOLUTIONS INC (UGSP-N)

Inventor: SOLOMON B J

Number of Countries: 101 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030126115	A1	20030703	US 200134231	A	20011227	200367 B
WO 200358513	A2	20030717	WO 2002US38939	A	20021206	200367
AU 2002351252	A1	20030724	AU 2002351252	A	20021206	200421
EP 1459164	A2	20040922	EP 2002786900	A	20021206	200462
			WO 2002US38939	A	20021206	

Priority Applications (No Type Date): US 200134231 A 20011227

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20030126115 A1 7 G06F-007/00

WO 200358513 A2 E G06F-017/50

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM
ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM
ZW

AU 2002351252 A1 G06F-017/50 Based on patent WO 200358513

EP 1459164 A2 E G06F-003/033 Based on patent WO 200358513

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

Abstract (Basic): US 20030126115 A1

NOVELTY - The method involves formatting a **tree** table associated with a data set and a display. A pruning indicator display element, included as a portion of the display, indicates to a user that a directory structure, associated with an immediate **parent** directory, exists within a **main directory** structure but has been omitted from the display.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a data processing system.

USE - For processing data elements stored in pruned data set to compile and display the pruned data set in data processing system.

ADVANTAGE - Enables displaying and compiling pruned directory listings, thus ensuring easy displaying of entire hierarchy associated with two components.

DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram of user interfacing method.

pp; 7 DwgNo 3/3

Title Terms: PROCESS; METHOD; DATA; ELEMENT; STORAGE; PRUNE; DATA; SET;
INDICATE; USER; DIRECTORY; STRUCTURE; ASSOCIATE; IMMEDIATE; **PARENT** ;
DIRECTORY; EXIST; MAIN; DIRECTORY; STRUCTURE; OMIT; DISPLAY

Derwent Class: T01

International Patent Class (Main): G06F-003/033 ; G06F-007/00 ;
G06F-017/50

International Patent Class (Additional): G06F-017/30

File Segment: EPI

26/5/8 (Item 8 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014050853 **Image available**
WPI Acc No: 2001-535066/200159
XRPX Acc No: N01-397237

Directory tree reconfiguration for computer system, involves changing
primary directory tree into secondary tree, based on selected
object and accordingly object position is changed related to objects in
other tree

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: MARTINEZ A E; RAHN M D
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6271846	B1	20010807	US 98163919	A	19980930	200159 B

Priority Applications (No Type Date): US 98163919 A 19980930

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6271846	B1		17	G06F-003/00	

Abstract (Basic): US 6271846 B1

NOVELTY - A **primary directory tree** is displayed in user viewable display. When an object is selected from the **primary directory**, the **primary tree** is changed into a directory, based on user set locations, such that object lies within **root** node of new directory. The position of an object is modified corresponding to position of object in secondary directory.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for computer program product.

USE - For computer system.

ADVANTAGE - Ensures optimum management and organization of objects within directory **tree** without need for changing actual organization structure.

DESCRIPTION OF DRAWING(S) - The figure shows the reanchor command given on a node of a **tree**.

pp; 17 DwgNo 5B/6

Title Terms: DIRECTORY; **TREE**; RECONFIGURE; COMPUTER; SYSTEM; CHANGE; PRIMARY; DIRECTORY; **TREE**; SECONDARY; **TREE**; BASED; SELECT; OBJECT; ACCORD; OBJECT; POSITION; CHANGE; RELATED; OBJECT; **TREE**

Derwent Class: T01

International Patent Class (Main): G06F-003/00

File Segment: EPI

26/5/10 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

013930261 **Image available**
WPI Acc No: 2001-414475/200144
XRPX Acc No: N01-306917

Similar featured-variable search for internet, involves assigning link
which is followed so that lower order node approached from main
directory, with minimum distance is referred, on tree structure
index searching

Patent Assignee: NIPPON TELEGRAPH & TELEPHONE CORP (NITE)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001134594	A	20010518	JP 99316327	A	19991108	200144 B
JP 3615439	B2	20050202	JP 99316327	A	19991108	200511

Priority Applications (No Type Date): JP 99316327 A 19991108

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001134594	A		14	G06F-017/30	
JP 3615439	B2		19	G06F-017/30	Previous Publ. patent JP 2001134594

Abstract (Basic): JP 2001134594 A

NOVELTY - The lower order empty nodes of an hierarchy, are detected
at time of construction of **tree** structure index. A link is assigned
and is followed so that the lower order node which can be approached
from **main directory** with minimum distance is **referred**, during
searching **tree** structure index. Within the **leaf** node, the nearest
neighbor point is searched based on near featured-variable vector.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
following:

- (a) Similar featured-variable search apparatus;
- (b) Recording medium

USE - For searching multimedia data on internet.

ADVANTAGE - Even the intermediate nodes on **tree** structure can be
determined easily by this method and similar featured-variable search
efficiency is improved.

DESCRIPTION OF DRAWING(S) - The figure shows the components of
similar featured-variable search apparatus. (Drawing includes
non-English language text).

pp; 14 DwgNo 1/13

Title Terms: SIMILAR; VARIABLE; SEARCH; ASSIGN; LINK; FOLLOW; SO; LOWER;
ORDER; NODE; APPROACH; MAIN; DIRECTORY; MINIMUM; DISTANCE; **REFER** ; **TREE**
; STRUCTURE; INDEX; SEARCH

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06T-007/00

File Segment: EPI

26/5/14 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011751794 **Image available**
WPI Acc No: 1998-168704/199815
XRPX Acc No: N98-133999

Referred -to variable determining method used by debugger of computer
program - generating block tree structure information indicating
nesting relationship between blocks generating section information and
generating variable- name -to-block correspondence information

Patent Assignee: FUJITSU LTD (FUJIT)

Inventor: KITADATE Y

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5721924	A	19980224	US 93149777	A	19931110	199815 B
			US 96758299	A	19961203	
JP 3205406	B2	20010904	JP 92299891	A	19921110	200152

Priority Applications (No Type Date): JP 92299891 A 19921110

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5721924	A	47	G06F-009/00	Cont of application US 93149777	
JP 3205406	B2	22	G06F-009/45	Previous Publ. patent JP 6149589	

Abstract (Basic): US 5721924 A

The method comprises generating block **tree** structure information indicating a nesting relationship between blocks in the source program in the structure of a **tree** by corresponding a node of the **tree** to the block, where the node contains a pointer to the node corresponding to the outer block directly containing the block.

The method further comprises generating variable- **name** -to-block correspondence information for storing, corresponding to a variable **name** defined in the source program, a set of blocks in which a variable having the variable **name** is defined, and

determining the **referred** -to variable by searching the nodes in the **tree** structure information from the node of the block specified by the pointer in the section including the specific position to the **root** of the **tree** and selecting a variable having the specific variable **name** which is defined in the first node searched in the searching step and which also is included in blocks stored in the variable- **name** -to-block correspondence information corresponding to the variable **name** .

USE - In a debugger, interpreter, etc. Obtaining a value of a **referred** -to variable defined in a source program having a specific variable **name** **referred** to at a specific position in a source program written in a language having a block structure.

Dwg.3A/26

Title Terms: **REFER** ; VARIABLE; DETERMINE; METHOD; COMPUTER; PROGRAM;
GENERATE; BLOCK; **TREE** ; STRUCTURE; INFORMATION; INDICATE; NEST; RELATED;
BLOCK; GENERATE; SECTION; INFORMATION; GENERATE; VARIABLE; **NAME** ; BLOCK;
CORRESPOND; INFORMATION

Derwent Class: T01

International Patent Class (Main): G06F-009/00 ; G06F-009/45

International Patent Class (Additional): G06F-011/36

File Segment: EPI

26/5/14 (Item 14 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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011751794 **Image available**
WPI Acc No: 1998-168704/199815
XRPX Acc No: N98-133999

Referred -to variable determining method used by debugger of computer
program - generating block tree structure information indicating
nesting relationship between blocks generating section information and
generating variable- name -to-block correspondence information

Patent Assignee: FUJITSU LTD (FUIT)

Inventor: KITADATE Y

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5721924	A	19980224	US 93149777	A	19931110	199815 B
			US 96758299	A	19961203	
JP 3205406	B2	20010904	JP 92299891	A	19921110	200152

Priority Applications (No Type Date): JP 92299891 A 19921110

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5721924	A		47	G06F-009/00	Cont of application US 93149777
JP 3205406	B2		22	G06F-009/45	Previous Publ. patent JP 6149589

Abstract (Basic): US 5721924 A

The method comprises generating block **tree** structure information indicating a nesting relationship between blocks in the source program in the structure of a **tree** by corresponding a node of the **tree** to the block, where the node contains a pointer to the node corresponding to the outer block directly containing the block.

The method further comprises generating variable- **name** -to-block correspondence information for storing, corresponding to a variable **name** defined in the source program, a set of blocks in which a variable having the variable **name** is defined, and

determining the **referred** -to variable by searching the nodes in the **tree** structure information from the node of the block specified by the pointer in the section including the specific position to the **root** of the **tree** and selecting a variable having the specific variable **name** which is defined in the first node searched in the searching step and which also is included in blocks stored in the variable- **name** -to-block correspondence information corresponding to the variable **name** .

USE - In a debugger, interpreter, etc. Obtaining a value of a **referred** -to variable defined in a source program having a specific variable **name** **referred** to at a specific position in a source program written in a language having a block structure.

Dwg.3A/26

Title Terms: **REFER** ; VARIABLE; DETERMINE; METHOD; COMPUTER; PROGRAM;
GENERATE; BLOCK; **TREE** ; STRUCTURE; INFORMATION; INDICATE; NEST; RELATED;
BLOCK; GENERATE; SECTION; INFORMATION; GENERATE; VARIABLE; **NAME** ; BLOCK;
CORRESPOND; INFORMATION

Derwent Class: T01

International Patent Class (Main): G06F-009/00 ; G06F-009/45

International Patent Class (Additional): G06F-011/36

File Segment: EPI

013525088/9

DIALOG(R)File 350:Derwent WPIX

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013525088 **Image available**

WPI Acc No: 2001-009294/200102

XRPX Acc No: N01-006988

Implementing a tree system for distributed objects by storing in a parent object the address of a son object if in the same process and information sending enquiry back to central directory if not

Patent Assignee: ALCATEL (COGE); ALCATEL SA (COGE)

Inventor: BANCTEL F; PIETRE A

Number of Countries: 029 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1041498	A1	20001004	EP 2000400870	A	20000330	200102 B
FR 2791788	A1	20001006	FR 994072	A	19990401	200102
WO 200060452	A2	20001012	WO 2000FR802	A	20000330	200102
AU 200036629	A	20001023	AU 200036629	A	20000330	200107
AU 747472	B	20020516	AU 200036629	A	20000330	200244
JP 2002541544	W	20021203	JP 2000609878	A	20000330	200309
			WO 2000FR802	A	20000330	

Priority Applications (No Type Date): FR 994072 A 19990401

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1041498	A1	F	9	G06F-017/30	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

FR 2791788	A1			G06F-012/08	
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WO 200060452	A2	F		G06F-009/00	
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Designated States (National): AU CA JP US

AU 200036629	A			G06F-009/00	Based on patent WO 200060452
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AU 747472	B			G06F-009/00	Previous Publ. patent AU 200036629
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Based on patent WO 200060452

JP 2002541544	W		16	G06F-009/46	Based on patent WO 200060452
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Abstract (Basic): EP 1041498 A1

NOVELTY - A central directory (Pr0) controls the search for all objects and includes a data structure (Tab0) which lists all parent/son relationships with a process address for the final object. A parent object (A) contains the address of a son object (B) if the latter is in the same process but otherwise has information to send the enquiry back to the central directory (Pr0) which uses the data structure (Tab0) to search a different indicated process.

USE - To manage a tree system for distributed objects

ADVANTAGE - The search for an object is not frustrated by an intermediate process being out of service and the central directory is able to route enquiries to a process or corresponding redundant process correctly using current system data

DESCRIPTION OF DRAWING(S) - The drawing shows the central directory and processes

Central directory (Pr0)

Data structure (Tab0)

Parent object (A)

Son object (BB)

pp; 9 DwgNo 2/2

Title Terms: IMPLEMENT; TREE; SYSTEM; DISTRIBUTE; OBJECT; STORAGE; PARENT; OBJECT; ADDRESS; SON; OBJECT; PROCESS; INFORMATION; SEND; ENQUIRY; BACK; CENTRAL; DIRECTORY

Derwent Class: T01

International Patent Class (Main): G06F-009/00; G06F-009/46; G06F-012/08; G06F-017/30

International Patent Class (Additional): G06F-015/16

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B2B; T01-J05B3

26/5/20 (Item 20 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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008052017 **Image available**
WPI Acc No: 1989-317129/198944
XRPX Acc No: N89-241416

File management system for computing system - uses object data
structures which add layer between user and data files allowing computer
to refer to data structures

Patent Assignee: HEWLETT-PACKARD CO (HEWP); DYSART J A (DYS-A-I)
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SHOWMAN P S; WHELAN C H; WILLIAMS P M; FRANCIS J R; SENIOR J R; WHELAN C
R

Number of Countries: 013 Number of Patents: 016

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 339220	A	19891102	EP 89104082	A	19890308	198944	B
AU 8933074	A	19891026				198951	
US 4953080	A	19900828	US 88186516	A	19880425	199037	
CN 1046807	A	19901107				199129	N
AU 9213026	A	19920528	AU 8933074	A	19890417	199230	
			AU 9213026	A	19920319		
AU 9213027	A	19920528	AU 8933074	A	19890417	199230	
			AU 9213027	A	19920319		
AU 9213028	A	19920528	AU 8933074	A	19890417	199230	
			AU 9213028	A	19920319		
US 5175848	A	19921229	US 88186516	A	19880425	199303	
			US 90520308	A	19900507		
US 5185885	A	19930209	US 88186516	A	19880425	199308	
			US 90520328	A	19900507		
AU 638635	B	19930701	AU 9213026	A	19920319	199333	N
			AU 8933074	A	19890000		
AU 638636	B	19930701	AU 9213027	A	19920319	199333	N
			AU 8933074	A	19890000		
AU 638637	B	19930701	AU 9213028	A	19920319	199333	N
			AU 8933074	A	19890000		
CA 1326565	C	19940125	CA 597626	A	19890424	199409	
US 5625809	A	19970429	US 88186516	A	19880425	199723	
			US 90521856	A	19900507		
			US 92905172	A	19920624		
			US 94231861	A	19940422		
US 5899996	A	19990504	US 88186516	A	19880425	199925	
			US 90520308	A	19900507		
			US 92949591	A	19920922		
KR 9707759	B1	19970516	KR 895352	A	19890424	199942	

Priority Applications (No Type Date): US 88186516 A 19880425; US 90520308 A
19900507; US 90520328 A 19900507; US 90521856 A 19900507; US 92905172 A
19920624; US 94231861 A 19940422; US 92949591 A 19920922

Cited Patents: Jnl.Ref; A3...9025; No-SR.Pub

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 339220	A	E	19		
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Designated States (Regional): BE CH DE FR GB IT LI NL

US 4953080	A		438		
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AU 9213026	A		G06F-015/20	Div ex application AU 8933074
AU 9213027	A		G06F-015/20	Div ex application AU 8933074
AU 9213028	A		G06F-015/20	Div ex application AU 8933074
US 5175848	A	94	G06F-007/00	Div ex application US 88186516
				Div ex patent US 4953080
US 5185885	A	94	G06F-015/40	Div ex application US 88186516
				Div ex patent US 4953080
AU 638635	B		G06F-015/20	Div ex application AU 8933074
				Previous Publ. patent AU 9213026
AU 638636	B		G06F-015/20	Div ex application AU 8933074
				Previous Publ. patent AU 9213027
AU 638637	B		G06F-015/20	Div ex application AU 8933074

US 5625809	A	98 G06F-017/30	Previous Publ. patent AU 9213028 Div ex application US 88186516 Cont of application US 90521856 Cont of application US 92905172 Div ex patent US 4953080
US 5899996	A	G06F-007/00	Div ex application US 88186516 Cont of application US 90520308 Div ex patent US 4953080 Cont of patent US 5175848
CA 1326565	C	G06F-015/20	
KR 9707759	B1	G06F-009/44	

Abstract (Basic): EP 339220 A

A file management system for a computer includes several, application programs, (101,106), data files (221,223), class **data structures** and object **data structures** (202,210). Each class **data structure** includes a **reference** to one application program only of the whole. Each object **data structure** includes a **reference** to one class **data structure** of the whole and a **reference** to at least one data file from the whole. The use of object **data structures** adds a layer between a user of the computer and data files allowing the computer to **refer** to an object **data structure** and access files, associated with the object **data structure**, using a tag which is inaccessible to the user. The user **refers** to an object based on the objects physical location on the screen.

Additionally, the file management system includes several link **data structures** each link **data structure** includes a **reference** to a first object **data structure** of the memory object **data structures** which serve as a **parent** object of the link and including a **reference** to a second object **data structure** of the many, which serves as a child object of the links.

USE/ADVANTAGE - Management of data within computer system. System allows user to file and use their data in any number of locations by linking those locations to actual data object.

2/83

Title Terms: FILE; MANAGEMENT; SYSTEM; COMPUTATION; SYSTEM; OBJECT; DATA; STRUCTURE; ADD; LAYER; USER; DATA; FILE; ALLOW; COMPUTER; **REFER** ; DATA; STRUCTURE

Derwent Class: T01

International Patent Class (Main): G06F-007/00 ; G06F-009/44 ; G06F-015/20 ; G06F-015/40 ; G06F-017/30

International Patent Class (Additional): G06F-001/00 ; G06F-013/14 ; G06F-015/419

File Segment: EPI

Set	Items	Description
S1	6137395	ROOT? ? OR PARENT? ? OR LEAF? ? OR SON OR SONS OR BRANCH? - OR TWIG? ? OR FATHER? ? OR STEM? ?
S2	1103080	BTREE OR TREE OR TREES OR TRIES
S3	33835	DATASTRUCT? OR DATA()STRUCTURE?
S4	107963	ACCESS() (PATH OR PATHS OR ROUTE? OR MEANS) OR LAP OR LOGIC- AL()ACCESS?
S5	7751670	NAME? OR (CHARACTER? OR ALPHANUMERIC) () (SEQUENC? OR STRING- ?)
S6	5818	(CENTRAL OR PRIMAR? OR MAIN) (2N) (DIRECTORY OR DIRECTORIES)
S7	6585	(LOGICAL OR PHYSICAL) (N) (NAME? OR ADDRESS?)
S8	801269	(PROCESS OR PROCESSES OR PROGRAM? OR ENVIRONMENT? OR OPERA- TING()SYSTEM?) (2N) (SAME? OR CONTAIN? OR WITHIN OR "WHITH"() "I- N" OR EMBED? OR INTEGRAT? OR INTEGRAL OR MATCHING OR IDENTICA- L? OR MATCHED?)
S9	8379785	RETURN? OR REFER? OR REDIRECT? OR DIRECTED OR DIRECTING
S10	64590	S1(10N)S2
S11	170	S8(S)S10
S12	10	S11(S) (S4 OR S5 OR S6)
S13	16	S11(S)S9
S14	21	S12 OR S13
S15	1	S7(S)S11
S16	21	S14 OR S15
S17	16	RD (unique items)
S18	8	S17 NOT PY>1999
S19	2473	S1(5N)S8
S20	45	S19(S)S2
S21	49	S20 OR S18
S22	33	RD (unique items)
S23	28	S22 NOT PY>1999
File 275:Gale Group Computer DB(TM) 1983-2005/Mar 18 (c) 2005 The Gale Group		
File 47:Gale Group Magazine DB(TM) 1959-2005/Mar 18 (c) 2005 The Gale group		
File 75:TGG Management Contents(R) 86-2005/Mar W1 (c) 2005 The Gale Group		
File 636:Gale Group Newsletter DB(TM) 1987-2005/Mar 18 (c) 2005 The Gale Group		
File 16:Gale Group PROMT(R) 1990-2005/Mar 18 (c) 2005 The Gale Group		
File 624:McGraw-Hill Publications 1985-2005/Mar 18 (c) 2005 McGraw-Hill Co. Inc		
File 484:Periodical Abs Plustext 1986-2005/Mar W2 (c) 2005 ProQuest		
File 613:PR Newswire 1999-2005/Mar 18 (c) 2005 PR Newswire Association Inc		
File 813:PR Newswire 1987-1999/Apr 30 (c) 1999 PR Newswire Association Inc		
File 141:Readers Guide 1983-2005/Dec (c) 2005 The HW Wilson Co		
File 239:Mathsci 1940-2005/Apr (c) 2005 American Mathematical Society		
File 696:DIALOG Telecom. Newsletters 1995-2005/Mar 17 (c) 2005 The Dialog Corp.		
File 553:Wilson Bus. Abs. FullText 1982-2004/Dec (c) 2005 The HW Wilson Co		
File 621:Gale Group New Prod.Annou. (R) 1985-2005/Mar 18 (c) 2005 The Gale Group		
File 674:Computer News Fulltext 1989-2005/Mar W2 (c) 2005 IDG Communications		
File 88:Gale Group Business A.R.T.S. 1976-2005/Mar 17 (c) 2005 The Gale Group		
File 160:Gale Group PROMT(R) 1972-1989 (c) 1999 The Gale Group		
File 635:Business Dateline(R) 1985-2005/Mar 18 (c) 2005 ProQuest Info&Learning		
File 15:ABI/Inform(R) 1971-2005/Mar 18 (c) 2005 ProQuest Info&Learning		

File 9:Business & Industry(R) Jul/1994-2005/Mar 17
(c) 2005 The Gale Group
File 13:BAMP 2005/Mar W1
(c) 2005 The Gale Group
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 610:Business Wire 1999-2005/Mar 18
(c) 2005 Business Wire.
File 647:CMP Computer Fulltext 1988-2005/Feb W4
(c) 2005 CMP Media, LLC
File 98:General Sci Abs/Full-Text 1984-2004/Dec
(c) 2005 The HW Wilson Co.
File 148:Gale Group Trade & Industry DB 1976-2005/Mar 18
(c)2005 The Gale Group
File 634:San Jose Mercury Jun 1985-2005/Mar 17
(c) 2005 San Jose Mercury News

23/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01793575 SUPPLIER NUMBER: 16981779 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Navigating NetWare 4.1 (Novell's NetWare 4.1, network operating system)

(includes related article on converting from version
3.X) ((Interoperability supplement)) (Product Announcement)

Kalman, Steve

LAN Magazine, v10, n5, pS8(5)

May, 1995

DOCUMENT TYPE: Product Announcement

ISSN: 0898-0012

LANGUAGE:

ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 4352 LINE COUNT: 00337

... recreate it in a new environment.

In NetWare 4.1, a program called DSMerge allows **trees** to be merged. The ability to rename containers and to move entire **branches** of the **tree** are essential to the **process**. (**Containers** off the **root** must have unique **names** .) These new functions are available to every administrator as part of NDS management, regardless of...

23/3,K/3 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

01371465 SUPPLIER NUMBER: 08761840 (USE FORMAT 7 OR 9 FOR FULL TEXT).
A mini-browser for Pascal and C++. (tutorial)
Entsminger, Gary
Computer Language, v7, n8, p45(12)
August, 1990
DOCUMENT TYPE: tutorial ISSN: 0749-2839 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2973 LINE COUNT: 00230

... a complex object such as a program or module is as a hierarchy or family **tree** of objects. Each object in the list can be simple out data, for example) or...

...Complex objects are either base or derived. Base objects are at the top of the **tree** ; derived objects are on **branches** .

A **tree** contains a **program** (a big object), and each node of the **tree** contains a program module (a smaller object). The modules can be **trees** themselves ad infinitum. An object has its own internal data and an interface through which...

23/3,K/23 (Item 4 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
(c) 2005 The Gale Group. All rts. reserv.

02075278 SUPPLIER NUMBER: 06752023

Garbage collection for Prolog based on WAM. (technical)
Appleby, Karen; Carlsson, Mats; Haridi, Seif; Sahlin, Dan
Communications of the ACM, v31, n6, p719(23)
June, 1988

DOCUMENT TYPE: technical ISSN: 0001-0782 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 8222 LINE COUNT: 00814

... backtracking. In this case it is only reachable via a choice point.
Since an environment **refers** to its parent environment and several
environments may have the **same parent**, the **environments** form a **tree**
which has one active **leaf**, E, and zero or more inactive leaves.

Figure 3 shows the tree structure of the...